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<110> ONCOMAB GmbH
<120> Neoplasm specific antibodies and uses thereof
<130> 31508PWO
<140> PCT/IB03/03487
<141> 2003-07-02
<150> DE 102 29 906.4
<151> 2002-07-04
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<151> 2002-07-06
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Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln
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                                      10
  1
                   5
                                                                   96
acg gcc agg atc acc tgc tct gga gat gca ttg cca aaa aaa tat cct
Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Lys Tyr Pro
              20
                                  25
tat tgg tac cag cag aag tca ggc cag gcc cct gtg ctg gtc atc tat
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Tyr Trp Tyr Gln Gln Lys Ser Gly Gln Ala Pro Val Leu Val Ile Tyr gag gac age aaa cga ccc tcc ggg atc cct gag aga ttc tct ggc tcc Glu Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser age tea ggg aca atg gee ace ttg act ate agt ggg gee cag gtg gag Ser Ser Gly Thr Met Ala Thr Leu Thr Ile Ser Gly Ala Gln Val Glu gat gaa gct gac tac tac tgt tac tca aca gac agc agt ggt aat atg Asp Glu Ala Asp Tyr Tyr Cys Tyr Ser Thr Asp Ser Ser Gly Asn Met tct tcg gaa ctg gga cca agc tca ccg tcc Ser Ser Glu Leu Gly Pro Ser Ser Pro Ser <210> 2 <211> 106 <212> PRT <213> Homo sapiens <400> 2 Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln Thr Ala Arg Ile Thr Cys Ser Gly Asp Ala Leu Pro Lys Lys Tyr Pro Tyr Trp Tyr Gln Gln Lys Ser Gly Gln Ala Pro Val Leu Val Ile Tyr Glu Asp Ser Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser • 50 Ser Ser Gly Thr Met Ala Thr Leu Thr Ile Ser Gly Ala Gln Val Glu Asp Glu Ala Asp Tyr Tyr Cys Tyr Ser Thr Asp Ser Ser Gly Asn Met Ser Ser Glu Leu Gly Pro Ser Ser Pro Ser

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                  5
tat gcc atg agc tgg gtc cgc cag gct cca ggg aag ggg ctg gag tgg
Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
                                 25
             20
gtc tca gct att agt ggt agt ggt agc aca tac tac gca gac tcc
Val Ser Ala Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala Asp Ser
         35
                             40
gtg aag ggc cgg ttc acc atc tcc aga gac aat tcc aag aac acg ctg
                                                                   192
Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
                          55
                                              60
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tat ctg caa atg aac agc ctg aga gcc gag gac acg gcc gta tat tac
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Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
                                          75
                      70
 65
tgt gcg aaa gat tca ttt cgt gaa gga ccc tgg ggc cag gga acc ctg
Cys Ala Lys Asp Ser Phe Arg Glu Gly Pro Trp Gly Gln Gly Thr Leu
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gtc acc
Val Thr
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4

tca gcc agt ctc acc tgc acc ttg cgc agt ggc atc aat gtt ggt acc Ser Ala Ser Leu Thr Cys Thr Leu Arg Ser Gly Ile Asn Val Gly Thr

25

5

20

1

10

30

				tgg Trp												144
	_			aaa Lys												192
				tct Ser												240
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				agc Ser												336
	-	cta Leu 115							•							348
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Ser	Ala	Ser	Leu 20	Thr	Cys	Thr	Leu	Arg 25		Gly	Ile	Asn	Val 30		Thr	
Tyr	Arg	Ile 35		Trp	Tyr	Gln	Gln 40		Pro	Gly	Ser	Pro		Gln	Tyr	
Leu	Leu 50		Tyr	Lys	Ser	Asp 55		Asp	Lys	Gln	Lys 60		Ser	Gly	Val	
Pro 65		Arg	Phe	Ser	Gly 70		Lys	Asp	Ala	Ser 75		. Asn	Ala	Gly	Ile 80	
Leu	.Leu	Ile	Ser	Gly 85		Gln	Ser	Glu	Asp 90		Ala	Asp	Tyr	Tyr 95		

Met Ile Trp His Ser Ser Ala Trp Val Phe Gly Gly Gly Thr Lys Leu 105 110 100 Thr Val Leu Gly 115 <210> 7 <211> 321 <212> DNA <213> Homo sapiens <220> <221> CDS <222> (1)..(321) <223> PM-2 Heavy chain variable region sequence <220> <221> V region <222> (1)..(321) <400> 7 ggg tcc ctg aga ctc tcc tgt gca gcc tct gga ttc acc ttt agc agc Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser tat gcc atg agc tgg gtc cgc cag gct cca ggg aag ggg ctg gag tgg , 96 Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp 30 25 20 gtc tca gct att agt ggt agt ggt agt aca tac tac gca gac tcc 144 Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser 35 gtg aag ggc cgg ttc acc atc tcc aga gac aat tcc aag aac acg ctg 192 Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu 55 50 tat ctg caa atg aac agc ctg aga gcc gag gac acg gcc gta tat tac 240 Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr 75 70 65 tgt gcg aaa ggt ggg gcc gaa ggc tgg tac gag tac tac tac tac tac

Cys Ala Lys Gly Gly Ala Glu Gly Trp Tyr Glu Tyr Tyr Tyr Tyr

85

90

WO 2004/005351

ggt atg gac gtc tgg ggc caa ggg acc ctg gtc Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val 100 105

321

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Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp
20 25 30

Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser 35 40 45

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu 50 55 60

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr 65 70 75 80

Cys Ala Lys Gly Gly Ala Glu Gly Trp Tyr Glu Tyr Tyr Tyr Tyr Tyr 85 90 95

Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val 100 105

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1				5					10					15		
+ ~ ~	atc	200	atc	tcc	tac	act	gga	acc	agc	agt	gac	att	aat	aat	tat	96
				Ser												
261	110	****	20	00	0,70		,	25			•		30	-	-	
aac	tat	gtc	tcc	tgg	tac	caa	cag	cac	cca	ggc	aaa	gcc	ccc	aaa	ctc	144
Asn	Tyr	Val	Ser	Trp	Tyr	Gln	Gln	His	Pro	Gly	Lys	Ala	Pro	Lys	Leu	
		35					40					45				
						<u> </u>						4-4				102
				gtc												192
Met		Tyr	Asp	Val	ser		Arg	Pro	ser	GTÀ	60	Ser	ASII	Arg	rne	
	50					55					00					
tct	aac	tcc	aag	tct	aac	aac	acσ	acc	tcc	ctq	acc	atc	tct	gga	ctc	240
				Ser												
65	-		_,_		70					75					80	
cag	gct	gag	gac	gag	gct	gat	tac	tac	tgc	agc	tca	aaa	aga	agc	agc	288
				Glu												
				85					90					95		
				ttc												330
Asn	Thr	Leu		Phe	Gly	Gly	Gly		Lys	Leu	Thr	Val				
			100					105					110			
-21	0> 1	0														
	1> 1															
	2> P															
			sapi	ens												
	-		_													
	0> 1															
Gln	Ser	Ala	Leu	Thr	Gln	Pro	Ala	Ser	Val	Ser	Gly	Ser	Pro	Gly	Gln	
1				5					10					15		
									_		_		-01			
Ser	Ile	Thr			Cys	Thr	Gly			Ser	Asp	vai			Tyr	
			20)				25	ı				30	,		
.	m	77-7	C	. m	. m	. c1=		u:~	Pro	(G) +	, T.ve	<u>Δ</u> 1 =	Dro	1.ve	Leu	
ASN	Tyr	vai 35		rrp	TAL	GTU	40			ОТУ	шуз	45		בע.		
		33	•				30									
Met	Ile	Tyr	Asr	val	Ser	Asn	Arq	Pro	Ser	Gly	, Val	. Ser	Asr	Arç	Phe	
	50					55				-	60					

PCT/IB2003/003487 WO 2004/005351

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu

70

65 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Lys Arg Ser Ser 90 85 Asn Thr Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu 110 100 105 <210> 11 <211> 327 <212> DNA <213> Homo sapiens <220> <221> CDS <222> (1)..(327) <223> CM-2 Heavy chain variable region sequence <220> <221> V_region <222> (1)..(327) <400> 11 aaa aag ccc ggg gag tct ctg agg atc tcc tgt aag ggc tct gga tac Lys Lys Pro Gly Glu Ser Leu Arg Ile Ser Cys Lys Gly Ser Gly Tyr 10 5 1 agt ttt acc acc tac tgg atc ggc tgg gtg cgc cag atg ccc ggg aaa 96 Ser Phe Thr Thr Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys 25 20 ggc ctg gag tgg atg ggg atc atc tat cct ggt gac tct gat acc aga 144 Gly Leu Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg 45 40 35 tac age eeg tee tte caa gge eag gte ace ate tea gee gae acg tee 192 Tyr Ser Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Thr Ser 50 55 atc agt acc gcc tac ctg cag tgg agc agc ctg aag gcc tcg gac acc 240 Ile Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr 80 70 75 65 gcc ata tat tac tgt gcg agg gag gtc tat act ggc cga aac tac tac 288 Ala Ile Tyr Tyr Cys Ala Arg Glu Val Tyr Thr Gly Arg Asn Tyr Tyr

85 90 95

tac tac ggt ctg gac gtc tgg ggc caa gga acc ctg gtc

Tyr Tyr Gly Leu Asp Val Trp Gly Gln Gly Thr Leu Val

100

105

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<213> Homo sapiens

<400> 12

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Ser Phe Thr Thr Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys
20 25 30

Gly Leu Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg
35 40 45

Tyr Ser Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Thr Ser 50 55 60

Ile Ser Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr 65 70 75 80

Ala Ile Tyr Tyr Cys Ala Arg Glu Val Tyr Thr Gly Arg Asn Tyr Tyr 85 90 95

Tyr Tyr Gly Leu Asp Val Trp Gly Gln Gly Thr Leu Val 100 105